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APPLICATION N	0.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/807,406		03/24/2004	Marten Swart	449122070000	3855
25227	7590	10/05/2005		EXAM	INER
MORRIS	SON & FO	ERSTER LLP	JONES, DIANE ELIZABETH		
	1650 TYSONS BOULEVARD SUITE 300				PAPER NUMBER
	N, VA 221	102		2862	
				DATE MAILED: 10/05/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Andisont/s)
	Application No.	Applicant(s)
Office Action Summary	10/807,406	SWART, MARTEN
omec Action Gammary	Examiner Since Sin	Art Unit
- The MAILING DATE of this communication	Diane E. Jones	2862
Period for Reply	appears on the cover sheet wi	ar are correspondence address
A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory per - Faiture to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNION 1.1.136(a). In no event, however, may a residual will apply and will expire SIX (6) MON tutte, cause the application to become Ab	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 24	4 March 2004.	
2a) This action is FINAL . 2b) T	his action is non-final.	
3) Since this application is in condition for allo	wance except for formal matt	ters, prosecution as to the merits is
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.D). 11, 453 O.G. 213.
Disposition of Claims		
4)⊠ Claim(s) <u>1-11</u> is/are pending in the applicati	ion.	
4a) Of the above claim(s) is/are without		
5)⊠ Claim(s) <u>1-11</u> is/are allowed.		
6) Claim(s) is/are rejected.	,	
7) Claim(s) 1 is/are objected to.		
8) Claim(s) are subject to restriction an	d/or election requirement.	·
Application Papers		
9)⊠ The specification is objected to by the Exam	iner.	
10) The drawing(s) filed on is/are: a)		by the Examiner.
Applicant may not request that any objection to	• • •	•
Replacement drawing sheet(s) including the cor	rection is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the	Examiner. Note the attache	d Office Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12)⊠ Acknowledgment is made of a claim for fore	ian priority under 35 U.S.C. (\$ 119(a)-(d) or (f).
a)⊠ All b)□ Some * c)□ None of:	.g., p.,, a.,	
1.⊠ Certified copies of the priority docum	ents have been received.	
2. Certified copies of the priority docum	ents have been received in A	Application No
3. Copies of the certified copies of the p	priority documents have been	received in this National Stage
application from the International Bur	reau (PCT Rule 17.2(a)).	
* See the attached detailed Office action for a	list of the certified copies not	received.
Attachment(s)	4 , □ 1	Summan (DTO 442)
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 		Summary (PTO-413) s)/Mail Date
3) X Information Disclosure Statement(s) (PTO-1449 or PTO/SB	/08) 5) Notice of I	nformal Patent Application (PTO-152)
Paper No(s)/Mail Date	6)	 ·

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DETAILED ACTION

1. This application is in condition for allowance except for the following formal matters:

Specification

- 2. The following title is suggested: CIRCUIT ARRANGEMENT WITH A LINEAR VARIABLE DIFFERENTIAL TRANSFORMER (LVDT) AS A DISPLACEMENT SENSOR.
- 3. The disclosure is objected to because of the following informalities: The terms "Sw1 and Sw2" on Page 13, Line 1 do not match the equivalent items in Figure 1. It is suggested that the terms "Sw1 and Sw2" should be changed to read "Ws1 and Ws2". Appropriate correction is required.

Claim Objections

4. Claim 1 is objected to because of the following informalities: Lines 3-5 state a circuit arrangement which comprises "a linear variable differential transformer as a displacement sensor or force sensor". The term "or" implies that displacement and force are equal and interchangeable quantities. The examiner suggests the language for the above phrase as "a linear variable differential transformer as a displacement

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sensor ", without the use of the phrase "or a force sensor". Appropriate correction is required.

5. Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Allowable Subject Matter

6. Claims 1-11 are allowed.

Reasons For Allowance

7. The following is an examiner's statement of reasons for allowance:
With respect to Claims 1-11, the prior art fails to point out:
calculating the temperature (Page 22, Line 18),

a current having a trapezoidal characteristic through the primary coil with equally high rising edge and falling edge values (Page 22, Lines 20-21), and sampling values of a rectangular voltage picked up on the primary coil and of a voltage proportional to the current through the primary taken at times at which the trapezoidal current has a constant characteristic (Page 22, Lines 20-27).

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Mockapetris et al. (5606515) discloses an LVDT with temperature correction (Col. 10, Lines 34-40).

Maher (5777468) discloses and LVDT with correction for temperature instability.

Frazzini et al. (5180979) teaches a position measurement sensor using an LVDT which corrects for pulse distortions (Col. 3, Lines 65 to Col. 4, Line 3).

Patent 5617023 and Pub. No. 2003/0188585 A1 disclose position sensors using LVDT with feedback circuit systems for correction of signals.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Diane E. Jones. The examiner can normally be reached on M-F.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

D. Jones

Muhau J. Tolkar

Michael Tokar

Supervisory Patent Examiner

Technology Center 2800